

Regulation for the
Mandatory Reporting of Greenhouse Gas Emissions

GHG Reporting for 2014 Data Electric Power Entities

Electricity Retail Providers and Marketers
under Section 95111

April 27, 2015

Presentation Slides Available Here:

<http://www.arb.ca.gov/cc/reporting/ghg-rep/guidance/guidance-training.htm>

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Outline

- Overview
- Regulation Updates
- Preparing for 2014 Data Reporting
- Cal e-GGRT Reporting Tool Updates
- Guidance
- Other topics
- Questions

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2013 Data Reporting Recap

All Reporting Entities

- 750 reports submitted
- 519 verified
 - 100% received positive emissions verification statements (includes 12 qualified positive)

Electric Power Entities

- 110 reports submitted; 76 verified
- 34 reports retail sales only with no imports/exports

Summary data posted for all reports

- <http://www.arb.ca.gov/cc/reporting/ghg-rep/reported-data/ghg-reports.htm>

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Reporting Schedule

- June 1, 2015
 - Reports due for EPEs and electricity retail providers
 - No time extensions
- July 15, 2015
 - Deadline for corrections to RPS Adjustment data
- Failure to submit a report by the required deadline is a violation of the regulation for each day the report remains unsubmitted
- Key Dates Reference Page:
 - <http://www.arb.ca.gov/cc/reporting/ghg-rep/ghg-rep-dates.htm>

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Verification Schedule

- September 1, 2015
 - Final Verification Statements due for all EPEs
 - No time extensions
- Start early to ensure on-time completion and to correct any issues identified during verification
- Verifiers must submit Adverse statement if verification not completed on time
- Failure to have a verification statement(s) submitted by the verification deadline is a violation of the regulation for each day the verification statement remains unsubmitted

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Enforcement Summary

- Issues that could lead to enforcement actions
 - Incorrect data submitted
 - Errors leading to a material misstatement
 - Failure to fix correctable errors
 - Late reports or failure to report
 - Late verification or no verification
- ARB has completed multiple enforcement actions related to reporting, and continues enforcement activities
- As completed, case settlements are posted here: <http://www.arb.ca.gov/enf/casesett/casesett.htm>

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Cal e-GGRT Tool Availability



- Tool available NOW
 - 2014 data reporting activated for EPEs
 - Must use updated Workbooks 1-4
 - Reflect current reporting requirements
 - Include 2014 specified source emission factors
- Guidance on EPE requirements is posted
 - FAQ on EPE Reporting Requirements
 - FAQ on Energy Imbalance Market (EIM) Transactions Reporting

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2014 Regulation Updates

- Revisions went into effect January 1, 2015
- Regulation available here: <http://www.arb.ca.gov/cc/reporting/ghg-rep/regulation/mrr-regulation.htm>
- All updates are effective for 2014 data reporting
 - No exceptions were specified in section 95103(h) for EPEs
- No plans for regulation updates in 2015

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Key Regulation Updates

- **CAISO Sales:** Publicly owned utilities (POU) and electrical cooperatives (co-op) must report MWhs sold into CAISO markets (section 95111(a)(12))
- **Transmission Loss Factor (TLF):** Specifies when TLF of 1.02 or 1.0 must be used (section 95111(b)(2))
- **Meter Data Requirement:** Requires meter data and Lesser of Analysis for some imports (section 95111(b)(2)(E))
- **REC Serial Numbers for Imports:** Requires renewable energy credit (REC) serial numbers to be reported for certain imports (section 95111(g)(1)(M)(3))

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CAISO Sales (section 95111(a)(12))

- New MRR requirement for POU and co-ops
 - Must report the annual MWhs of all electricity sold into the CAISO markets for which the entity has a compliance obligation
- Verifiers must contact ARB directly to confirm that a specific entity is not subject to this requirement

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Reporting CAISO Sales in Workbook 1

CAISO SALES BY ELECTRICAL DISTRIBUTION UTILITIES (EDU) THAT ARE NOT IOUs (95111(a)(12))

Are you required to report electricity sales into CAISO pursuant to section 95111(a)(12)? Select (Yes/No)

If "Yes," complete the table below.

TO ADD ROW(S) TO THE TABLE USING MACROS, enter the number of rows to be added and click the Add Row(s) button.

TO DELETE EXTRANEOUS ROW(S) USING MACROS, specify the row number to be deleted and click the "Delete Row" button.

NOTE: You will need to enable macros for other buttons to work. If you do not wish to enable macros, or are an expert user, please unlock the workbook by right-clicking the active worksheet and selecting "VBA Project for This Workbook".

TO ADD ROW(S) TO THE TABLE WITHOUT USING MACROS, use one of the following methods:

1. Click a row or rows into the middle of the table, above the last row. WARNING: If you insert a row after the table, it will not properly export to XML.
2. Drag the blue marker in the far right corner of the table down.

TO DELETE ROW(S) TO THE TABLE WITHOUT USING MACROS, select the row(s) that you wish to delete, right-click on and select "Delete".

Facility and Unit ID Name Note: Select "Other" if facility is not listed or select "Unknown" if the source of electricity is not known	ARB Facility and Unit ID#	If facility is not listed, enter Facility Name (if known) If unknown, leave blank	Year	Megawatt Hours (MWh) for all electricity sold into the CAISO markets for which an EDU has a compliance obligation	Emission Factor (if known) Facility specific or with specific emission factor (MTCO ₂ /MWh)
Rows inserted below this message will not be saved in the XML upload					

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Instructions | Version | Guidance | Data Export XML | Reporter Info | COVERED BY CALC | Retail Provider | CAISO Sales | Import Imports | Spec Imports | RPS Adjust

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Transmission Loss Factor (section 95111(b)(2))

- Apply TL factor 1.02 (2% loss) when losses not supported by a California balancing authority
- Apply TL factor 1.0 (0% loss) when losses:
 - Have been accounted for, or
 - Supported by CA balancing authority, or
 - Compensated by using electricity sourced from within California
- Contact ARB staff with specific questions

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Transmission Loss Factor in Workbook 1

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press unlock the workbook by right-clicking the active worksheet tab.

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Lesser of Analysis Example

Table 3
Meter Data Requirement During Under- and Over-Generation
Illustration for One Hour of Generation Scheduled and Delivered

Description		Example 1 Under- Generation (MW or MWh)	Example 2 Over- Generation (MW or MWh)
1	Metered Generation at Source A	85	115
2	Scheduled on e-Tag	100	100
3	Lesser Of Meter or Scheduled	85	100
4	Zero Emission Specified Source Claim	85	100
5	Substitute Power	15	0
6	Potential RPS Adjustment Claim	0	15

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REC Serial Numbers for Specified Source Imports (section 95111(g)(1)(M)(3))

- RECs do not need to be retired
- REC serial numbers must still be reported for any California RPS-eligible resources
 - Failure to report REC serial numbers by the verification deadline = nonconformance = qualified positive verification statement
- Implemented for 2014 data reported in 2015, and future years

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REC Serial Numbers for Specified Source Imports – in Workbook 1

AW	AX	AY	AZ	BA	BB	BC	BD	BE
8				Total Number of Specified Source REC Serial Numbers required				
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REC Retirement for RPS Adjustments (section 95111(g)(1)(M)(1))

- No RPS adjustment can be claimed without retired REC reported in “REC serial” tab
- RECs must be retired in the subaccount by July 15th
- RECs retired must be used to comply with California RPS requirements during the same year the RPS adjustment was claimed (section 95852(b)(4) of Cap-and-Trade)
- RPS adjustment can only be claimed for electricity procured for RPS compliance but not delivered to California by the reporting entity

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REC Retirement for RPS Adjustments in Workbook 1

RPS ADJUSTMENT REQUIREMENTS									
ELIGIBLE RESOURCE	RIGHTS	REC STATUS	REC DATE	DELIVERY	ELIGIBLE RESOURCE	RIGHTS	REC STATUS	DELIVERY	ELIGIBLE RPS ADJUSTMENT
Is the power from an Eligible Renewable Energy Resource, per Section 99802(a)(4)(A) (Y/N)	Electricity Importer Must Have Either of the following, per 99802(b)(4)(A) (Y/N)	RECs must be used to comply with California RPS requirements during the same year in which the RPS adjustment is claimed, per 99802(b)(4)(B)	Date RECs retired in WREGIS Subaccount?	No RPS adjustment may be claimed for an eligible renewable energy resource when its electricity is directly delivered, per 99802(b)(4)(C)	Is the power from an Eligible Renewable Energy Resource, per Section 99802(a)(4)(A) (Y/N)	Electricity Importer Must Have Either of the following, per 99802(b)(4)(A) (Y/N)	RECs must be used to comply with California RPS requirements during the same year in which the RPS adjustment is claimed, per 99802(b)(4)(B)	No RPS adjustment may be claimed for an eligible renewable energy resource when its electricity is directly delivered, per 99802(b)(4)(C)	Eligible for RPS Adjustment?
Yes	Ownership or Contract Rights	Retired in WREGIS	5/1/15	Not Directly Delivered to CA	0	0	0	0	Eligible

Yes	Ownership or Contract Rights	Retired in WREGIS	Yes PDR is CA-BAA
No	Ownership or Contract Rights	Will be retired later	Yes PDR via Distribution Grid
Neither	Ownership or Contract Rights	Did Not Buy RECs	Spec Source to PDR in CA
	Ownership or Contract Rights	Send the RECs	Change Transfer
	Ownership or Contract Rights		Not Delivered to CA

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Energy Imbalance Market (EIM)

- California ISO Energy Imbalance Market began operation on November 1, 2014
- Electricity imports/exports documented via CAISO Market Results Interface (CMRI)
- See EIM FAQ, www.arb.ca.gov/cc/reporting/ghg-rep/ghg-rep-power/eim-faqs.pdf
- EIM market participants subject to same reporting and verification requirements as other EPEs

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Energy Imbalance Market (EIM) in Workbook 1

Users to Add to the table below		1	Add Row(s)
Do Delete from the table below		20	Delete Row
In a macro, or as an expert user, please click the worksheet by right-clicking the active worksheet and then click the worksheet name.			
Insert a row after the table, it will not properly report to BMR.			
Please, right click on and select "Insert"			

"Spec Imports" tab

PHYSICAL TRANSACTION ATTRIBUTES -- IMPORTED POWER									
Used By First of Receipt in NERC e-tag, or as an expert user, please click the worksheet by right-clicking the active worksheet and then click the worksheet name.	First Point of Receipt (PDR) Full Name	Transaction Start Date (Required if reporting by e-tag transaction) (Optional)	Transaction End Date (Required if reporting by e-tag transaction) (Optional)	NERC e-tag Code (Required if reporting by e-tag transaction) (Optional)	Facility Name in which the Facility is Located	Facility Name, Metered, or BMR	Transaction Loss Factor Determination per 99111(b)(2)	MWh as measured at the Rebar or at the First Point of Delivery (PDR) Inside California per 99111(b)(4)(A) NERC e-tag	
								10,000	

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Reporting Tips

- Start early, finish early
- Involve verifier as soon as possible
 - Include enough time to make verification revisions
- Update DR, ADR, Agents if needed
 - They have access to system until you remove them
- Contact ARB for any questions about requirements (ghgreport@arb.ca.gov)
- Check ARB guidance: <http://www.arb.ca.gov/cc/reporting/ghg-rep/guidance/guidance.htm>

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Verification Tips

- EPE must demonstrate to verifier that “covered emissions” have no material misstatement and no correctable errors to avoid adverse verification statement
 - Verifier uses risk-based sampling and professional judgement as to whether standard of reasonable assurance is met
 - If verifier and reporter disagree on requirements, always contact ARB for assistance
- GHG Inventory Program documentation must clearly describe or reference how EPE ensures:
 - All electricity imports, exports, and wheels are included and appropriately accounted
 - All RPS adjustments and qualified export adjustments meet eligibility criteria
 - All REC serial numbers are reported for California-eligible renewable energy resources claimed in specified imports or RPS adjustments
- GHG Inventory Program documentation must include all ARB written interpretations provided to EPE

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Resource Web Sites

- Email reporting questions to: ghgreport@arb.ca.gov
- EPE Reporting Guidance
<http://www.arb.ca.gov/cc/reporting/ghg-rep/ghg-rep-power/ghg-rep-power.htm>
- Cal e-GGRT Tool Training
<http://www.arb.ca.gov/cc/reporting/ghg-rep/tool/ghg-tool.htm>
- Cal e-GGRT Main Help Page
<http://www.ccdsupport.com/confluence/display/calhelp/Home>

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Key Reporting Dates

Date	Activity
February 2	Regulatory deadline: Due date for electric power entities to register specified facilities outside California
February 18	Public release of Cal e-GGRT
April 10	Regulatory deadline: Reporting deadline for facilities and suppliers of fuels and carbon dioxide, except when subject to abbreviated reporting
June 1	Regulatory deadline: Reporting deadline for electric power entities and those subject to abbreviated reporting
July 15	Regulatory deadline: Deadline for corrections to RPS Adjustment data required for electric power entity data reports
September 1	Regulatory deadline: Final verification statements due (emissions data and product data)

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GHG Reporting Contacts

Subject Matter	Contact
Manager – Climate Change Reporting Section	Brieanne Aguila , Manager 916.324.0919
General Reporting Requirements, Stationary Combustion, Miscellaneous Sectors (cement, glass, pulp and paper, etc.), Cal e-GGRT Reporting	Patrick Gaffney 916.322.7303
Reporting Tool Registration and General Questions	Karen Lutter 916.322.8620
Electricity Generation and Cogeneration Facilities	Karen Lutter 916.322.8620
Electricity Retail Providers and Electricity Marketers	Wade McCartney 916.327.0822
Fuel and CO ₂ Suppliers - Transportation Fuels, Natural Gas, LPG, CO ₂	Syd Partridge 916.445.4292
Petroleum Refineries, Hydrogen Plants, Oil & Gas Production, and Associated Product Data	Byard Mosher 916.323.1185
Manager – Greenhouse Gas Report Verification	Renee Lawver , Manager 916.322.7062
Chief – Program Planning and Monitoring Branch	Jim Aguila , Chief 916.322.8283

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